



## ABSTRACT

A control device (30) calculates a voltage command value of a voltage step-up converter (12) based on a torque command value (~~TR1 (or TR2)~~) and a motor revolution number (~~MRN1 (or MRN2)~~) and calculates an on-duty (~~D\_ON\_1~~) of an NPN transistor (~~Q1~~) based on the calculated voltage command value and a DC voltage (~~Vb~~) from a voltage sensor (10). When the on-duty (~~D\_ON\_1~~) is influenced by a dead time of NPN transistors (~~Q1, Q2~~), control device (30) fixes the on-duty (~~D\_ON\_1~~) at 1.0 to control the NPN transistors (~~Q1, Q2~~) in such a manner that the voltage is increased or decreased.